

CUSTOMER NAME	
PROJECT NAME	
DATE	TYPE
CATALOG NUMBER	

Arize Factor® ML300 HORT147EU

Scalable lighting system for multi-layer cultivation

Scalable, modular, and versatile, the Arize Factor ML300 is the ideal choice for multi-layer, production-focused cultivation. Configurable in 4-, 5-, and 6-bar arrays, growers can add extra bars to easily boost intensity or increase coverage area. This highly efficient, passively-cooled LED grow light system can power vigorous vegetative growth or drive generative production in dense, sea-of-green style indoor plantations.

Optical System

Typical Photon Flux	1,134 - 1,728 $\mu\text{mol/s}$
Light Distribution	140°
Spectrums	PKR, PKB, PKF, BRI and 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	2.3 to 2.8 $\mu\text{mol/j}$
Dim-to-Off ³	Yes
Dim Off Voltage	0.35-0.65V (typ. 0.5V)
Dim On Voltage	0.55-0.85V (typ. 0.7V)
Dimming Output Range	10%-100%
Power Factor	>0.9
Absolute Maximum Dimming Voltage	20V
Max. Remote Mount Distance	6 ft (1.83 m)
Cooling	Passive
IP Rating	IP65

For input voltage option 3, dimming control input is non-isolated from Class 1 driver output circuit. Use with sink dimmers only

³ Refer to installation guide for dimming functionality details

⁴ Tested at 30°C per TM-21

Rated Lifetime

L90: >50,000 hours⁴

Certifications & Warranty

Five-year system warranty
cULus E492907, CE, UKCA



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Ordering Information

GEHF

MODEL	MODEL	MOUNTING	SPECTRUM	INPUT VOLTAGE	DISTRIBUTION	OPTIONS	GEN	PACKAGING						
GEHF	M4	S	Suspended	PKR	7	220-240V	W	Wide Batwing	X	Leader Cable, Open Lead	1	[Blank]	Single Pack	
		X	Suspended + PS Wireform ¹	PKB	8	380-415V						M1	Bulk Pack	
	M5				PKF	N	No PS			N	No Leader Cable			
					BRI									
	M6				BRV									

SPECTRUM TABLE

ARRAY	SPECTRUM	TYPICAL PHOTON FLUX ¹ (µMOL/S)	POWER ² (W)	EFFICACY ² (µMOL/J)	DC INPUT VOLTAGE	LIGHT BAR MODEL NUMBER ³
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-MBRVW1
	BRV	984	424	2.3	45	GEHF-MPKFW1
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

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

HIGH VOLTAGE ACCESSORIES

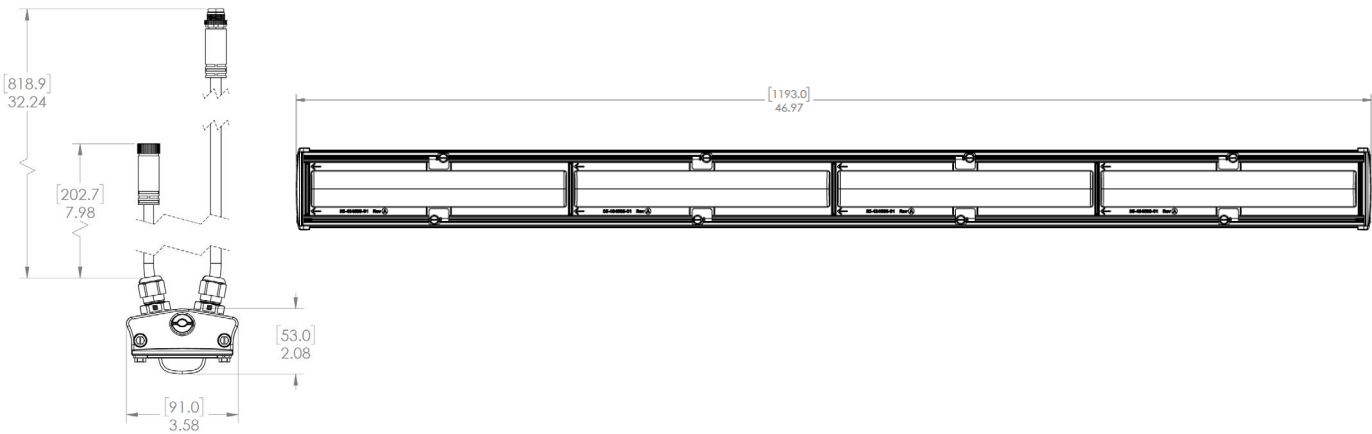
ORDER CODE	SKU	DESCRIPTION	BOX QUANTITY
GECA30C18-BA03B	93118693	914 mm Interconnection Cable, CE	60
GECA30B18-BA06B	93067609	152 mm Interconnection Cable, CE	32
GECA30B18-BA12B	93067610	304 mm Interconnection Cable, CE	16
GEHR-BRA WIREFORM	93153914	Factor Suspended Mount Wireform Bracket	1
GEHR-BRA WIREFORM 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-NO	95047411	304 mm Power Supply Remote Mounting Kit	1
GEHR-HAR M15 SHORTING CAP	93306044	Replacement Shorting Cap	1

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Product Dimensions

DIMENSIONS AND WEIGHT						
	LENGTH		WIDTH		HEIGHT	
Fixture	46.97"	1193 mm	3.58"	91 mm	2.08"	53 mm
Power Supply ¹	10.81"	274.5 mm	9.96"	252.9 mm	3.65"	92.8 mm
Power Supply ²	12.60"	320 mm	5.94"	151 mm	1.81"	46 mm

¹ 220-240V input voltage ² 380-415V input voltage



Arrays



4-bar

5-bar

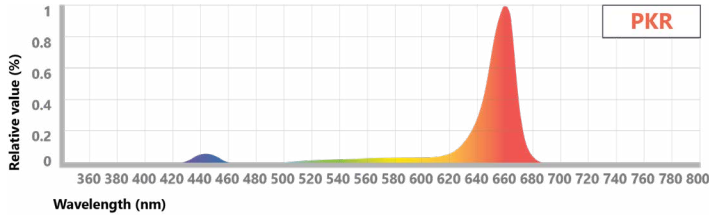
6-bar

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

Photometric Data

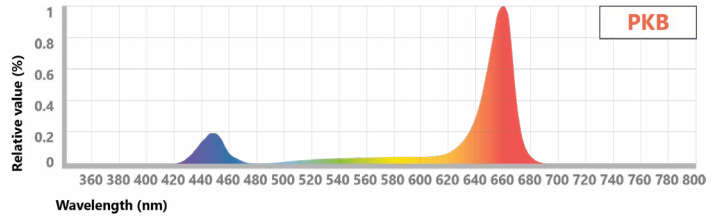
Type R

High red light to optimize plant growth and photosynthesis



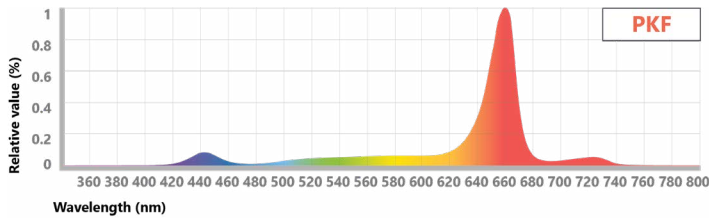
Type B

Light that supports biomass and secondary metabolite production



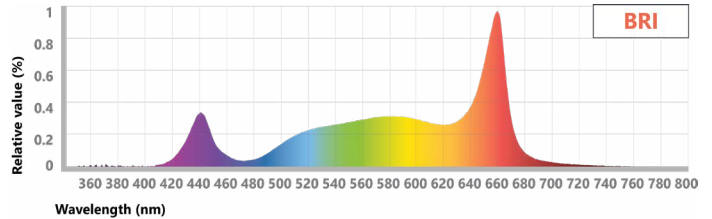
Type F

Encourages an expansion response for more robust growth

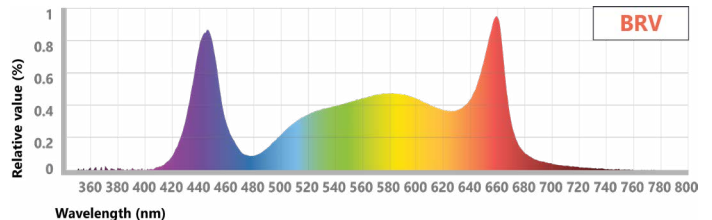


Type BR

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%



DISCLAIMERS

Horticultural lighting only. Not suitable for general lighting applications.

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.

